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NOTES FROM PACIFIC COAST OBSERVATORIES.

Notes from the Berkeley Astronomical Department.

The first half of the academic year 1911-12 at the University of California has opened with the following enrollment in the courses offered by the Berkeley Astronomical Department:

> Lower Division Courses.—Elements of Astronomy, 200; Observatory Practice, 50.
>
> Upper Division Courses.—General Astronomy, 12; Practical Astronomy, 16; Least Squares, 24; Numerical Differentiation and Integration, 3.
>
> Graduate Courses.—Theory of Orbits, 7; Introduction to Celestial Mechanics, 7; Special Perturbations, 3; General Perturbations after Bohlin, Gylden and Brendel, 4; Advanced Study and Research in Practical Astronomy, 8.

More than 70 students are engaged in practical work with the instruments of the Students' Observatory.

Professor R. T. Crawford is absent on leave during the academic year and is at present at Berlin. He was delegated to represent the University of California at the recent Jubilee of the University of Breslau.

Professor D. W. Morehouse, of Drake University, has been appointed Instructor in Astronomy during Professor Crawford's absence. In addition to his duties as instructor he is engaged in graduate study.

Mr. Eli S. Haynes, who has been in charge of the Laws Observatory at the University of Missouri, has been appointed a University Fellow in Astronomy and is also engaged in graduate study.

Among others who have joined the graduate department this year are Miss PHŒBE WATERMAN, of the Solar Observatory on Mount Wilson; Mr. JOHN H. PITMAN, who holds a Fellowship from Swarthmore College, and Miss ELVA A. HENRY, of Pomona College.

Mr. R. K. YOUNG and PAUL W. MERRILL, Fellows in the Lick Observatory, are spending this year in graduate study at Berkeley.

There is a marked increase in the attendance of graduate students this year, the total number registered in the Lick and Berkeley Astronomical Departments being fifteen. Practically all of these are studying for the degree of Doctor of Philosophy.

A. O. LEUSCHNER.

BERKELEY ASTRONOMICAL DEPARTMENT,
September 11, 1911.

SECOND ELEMENTS OF COMET *c* 1911 (BROOKS).

The following set of elements of Comet *c* 1911, (Brooks), has been computed from observations taken at the Lick Observatory by Dr. AITKEN and Mr. KIESS on July 21st, August 4th, and August 18th:

ELEMENTS.

$$\begin{array}{rl} T = & \text{Oct. } 27.6825 \text{ Gr. M. T.} \\ \left.\begin{array}{rl} \omega = & 152^\circ\ 50'\ 29''.7 \\ \Omega = & 293\ \ \ 5\ \ \ 15.3 \\ i = & 33\ \ 56\ \ \ 6.1 \end{array}\right\} & 1911.0. \\ q = & 0.489506 \end{array}$$

CONSTANTS FOR THE EQUATOR 1911.0.

$$\begin{aligned} x &= r[9.933523]\ \sin(180^\circ\ 2'\ \ 7''.4 + v) \\ y &= r[9.928072]\ \sin(\ 68\ \ 0\ \ 31\ .3 + v) \\ z &= r[9.868476]\ \sin(123\ \ 8\ \ \ 2\ .4 + v) \end{aligned}$$

Although these parabolic elements admit of some improvement, the residual of — 14″ in the first declination indicates, according to the method of solution, that the orbit is slightly elliptic. The parabolic elements, however, given above, will represent the motion of the comet with sufficient accuracy for some weeks to come. An observation taken by Mr. D. W. MOREHOUSE at the Students' Observatory on September 4th is represented as follows, o — c: